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SEQUENCE LISTING

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<120> A NOVEL ANDROGEN-INDUCED SUPPRESSOR OF CELL
PROLIFERATION AND USES THEREOF

<130> MBI-008

<140> US 09/512,581

<141> 2000-02-24

<150> US 60/121,461

<151> 1999-02-24

<160> 6

<170> PatentIn Ver. 2.0

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me
BW

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Ser Phe Thr His Pro Ile Ser Phe His Ser Ala Glu Thr Phe Glu Ser
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Leu Gln Ile Phe Lys Asn Thr Gly Ser Lys Ile Glu Glu Asp Phe Pro
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Pro Tyr Thr Ile His Leu Leu Ala His Asp Pro Asp Tyr Val Lys Val
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Arg Arg Leu Lys Met Val Val Lys Thr Phe Met Asp Met Asp Gln Asp
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Ser Glu Glu Glu Lys Glu Leu Tyr Leu Asn Leu Ala Leu His Leu Ala
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Ser Asp Phe Phe Leu Lys His Pro Gly Lys Asp Val Arg Leu Leu Val
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Tyr Thr Ser Pro Asp Lys Leu Lys Asp Ile Phe Met Phe Ile Thr Arg
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Phe Tyr Leu Leu Glu Asn Ile Ala Trp Val Lys Ser Tyr Asn Ile Cys

ab
BW

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165 170 175

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Pro	Leu	Trp	Gln	Cys	Tyr	Leu	Gly	Arg	Phe	Asn	Asp	Ile	His	Val	Pro		
		315					320					325					
atc	cgc	ctg	gaa	tgt	gtg	aaa	ttt	gct	agc	cat	tgt	ctc	atg	aac	cat	1181	
Ile	Arg	Leu	Glu	Cys	Val	Lys	Phe	Ala	Ser	His	Cys	Leu	Met	Asn	His		
	330					335					340						
cct	gat	tta	gca	aaa	gac	tta	aca	gag	tat	ctt	aaa	gtg	agg	tca	cat	1229	
Pro	Asp	Leu	Ala	Lys	Asp	Leu	Thr	Glu	Tyr	Leu	Lys	Val	Arg	Ser	His		
	345				350					355					360		
gac	cct	gag	gaa	gct	att	aga	cat	gat	gtt	att	gtg	tca	ata	gtt	aca	1277	
Asp	Pro	Glu	Glu	Ala	Ile	Arg	His	Asp	Val	Ile	Val	Ser	Ile	Val	Thr		
				365					370					375			
gct	gct	aaa	aag	gat	att	ctt	ctg	gtc	aat	gat	cac	tta	ctt	aat	ttt	1325	
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380 385 390

gtg aga gag aga aca tta gac aaa cga tgg aga gta cgc aaa gaa gcc 1373
Val Arg Glu Arg Thr Leu Asp Lys Arg Trp Arg Val Arg Lys Glu Ala
395 400 405

atg atg gga ctt gcc caa att tat aag aaa tat gct tta cag tca gca 1421
Met Met Gly Leu Ala Gln Ile Tyr Lys Lys Tyr Ala Leu Gln Ser Ala
410 415 420

gct gga aaa gat gct gca aaa cag ata gca tgg atc aaa gac aaa ttg 1469
Ala Gly Lys Asp Ala Ala Lys Gln Ile Ala Trp Ile Lys Asp Lys Leu
425 430 435 440

cta cat ata tat tat caa aat agt att gat gat cga cta ctt gtt gaa 1517
Leu His Ile Tyr Tyr Gln Asn Ser Ile Asp Asp Arg Leu Leu Val Glu
445 450 455

cgg atc ttt gct caa tac atg gtt cct cac aat tta gaa act aca gaa 1565
Arg Ile Phe Ala Gln Tyr Met Val Pro His Asn Leu Glu Thr Thr Glu
460 465 470

cgg atg aaa tgc tta tat tac ttg tat gcc aca ctg gat tta aat gct 1613
Arg Met Lys Cys Leu Tyr Tyr Leu Tyr Ala Thr Leu Asp Leu Asn Ala
475 480 485

gtg aaa gca ttg aat gaa atg tgg aaa tgt caa aat ctg ctc cga cat 1661
Val Lys Ala Leu Asn Glu Met Trp Lys Cys Gln Asn Leu Leu Arg His
490 495 500

caa gta aag gat ttg ctt gac ttg att aag caa ccc aaa aca gat gcc 1709
Gln Val Lys Asp Leu Leu Asp Leu Ile Lys Gln Pro Lys Thr Asp Ala
505 510 515 520

agt gtc aag gcc ata ttt tca aaa gtg atg gtt att aca aga aat tta 1757
Ser Val Lys Ala Ile Phe Ser Lys Val Met Val Ile Thr Arg Asn Leu
525 530 535

cct gat cct ggt aag gct cag gat ttc atg aag aaa ttc aca cag gtg 1805
Pro Asp Pro Gly Lys Ala Gln Asp Phe Met Lys Lys Phe Thr Gln Val
540 545 550

tta gaa gat gat gag aaa ata aga aag cag tta gaa gta ctt gtt agt 1853
Leu Glu Asp Asp Glu Lys Ile Arg Lys Gln Leu Glu Val Leu Val Ser
555 560 565

cca aca tgc tcc tgc aag cag gct gaa ggt tgt gtg cgt gaa ata act 1901
Pro Thr Cys Ser Cys Lys Gln Ala Glu Gly Cys Val Arg Glu Ile Thr
570 575 580

aag aag ttg ggc aac ccc aaa cag cct aca aat cct ttc ctg gaa atg 1949
Lys Lys Leu Gly Asn Pro Lys Gln Pro Thr Asn Pro Phe Leu Glu Met
585 590 595 600

atc aag ttt ctc ttg gag agg ata gca cct gtg cac ata gat acc gaa 1997
Ile Lys Phe Leu Leu Glu Arg Ile Ala Pro Val His Ile Asp Thr Glu
605 610 615

tct atc agt gct ctt att aaa caa gtg aac aaa tca ata gat gga aca 2045
Ser Ile Ser Ala Leu Ile Lys Gln Val Asn Lys Ser Ile Asp Gly Thr
620 625 630

gca gat gat gaa gat gag ggt gtt cca act gat caa gcc atc aga gca 2093
Ala Asp Asp Glu Asp Glu Gly Val Pro Thr Asp Gln Ala Ile Arg Ala
635 640 645

ggt ctt gaa ctg ctt aag gta ctc tca ttt aca cat ccc atc tca ttt 2141
Gly Leu Glu Leu Leu Lys Val Leu Ser Phe Thr His Pro Ile Ser Phe
650 655 660

cat tct gct gaa aca ttt gaa tca tta ctg gct tgt ctg aaa atg gat 2189
His Ser Ala Glu Thr Phe Glu Ser Leu Leu Ala Cys Leu Lys Met Asp
665 670 675 680

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Asp Glu Lys Val Ala Glu Ala Ala Leu Gln Ile Phe Lys Asn Thr Gly
685 690 695

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Ser Lys Ile Glu Glu Asp Phe Pro His Ile Arg Ser Ala Leu Leu Pro
700 705 710

gtt tta cat cac aaa tct aaa gaa gga ccc ccc cgt caa gcc aaa tat 2333
Val Leu His His Lys Ser Lys Lys Gly Pro Pro Arg Gln Ala Lys Tyr
715 720 725

gcc att cat tgt atc cat gcg ata ttt tct agt aaa gag acc cag ttt 2381
Ala Ile His Cys Ile His Ala Ile Phe Ser Ser Lys Glu Thr Gln Phe
730 735 740

gca cag ata ttt gag cct ctg cat aag agc cta gat cca agc aac ctg 2429
Ala Gln Ile Phe Glu Pro Leu His Lys Ser Leu Asp Pro Ser Asn Leu
745 750 755 760

gaa cat ctc ata aca cca ttg gtt act att ggt cat att gct ctc ctt 2477
Glu His Leu Ile Thr Pro Leu Val Thr Ile Gly His Ile Ala Leu Leu
765 770 775

gca cct gat caa ttt gct gct cct tgg aaa tct tgg gta gct act ttc 2525
Ala Pro Asp Gln Phe Ala Ala Pro Trp Lys Ser Trp Val Ala Thr Phe
780 785 790

att gtg aaa gat ctt ctc atg aat gat cgg ctt cca ggg aaa aag aca 2573
Ile Val Lys Asp Leu Leu Met Asn Asp Arg Leu Pro Gly Lys Lys Thr
795 800 805

act aaa ctt tgg gtt cca gat gaa gaa gta tct cct gag aca atg gtc 2621
Thr Lys Leu Trp Val Pro Asp Glu Glu Val Ser Pro Glu Thr Met Val
810 815 820

aaa att cag gct att aaa atg atg gtt cga tgg cta ctt gga atg aaa 2669
Lys Ile Gln Ala Ile Lys Met Met Val Arg Trp Leu Leu Gly Met Lys
825 830 835 840

aat aat cac agt aaa tca gga act tct acc tta aga ttg cta aca aca 2717
Asn Asn His Ser Lys Ser Gly Thr Ser Thr Leu Arg Leu Leu Thr Thr
845 850 855

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Ile Leu His Ser Asp Gly Asp Leu Thr Thr Glu Gln Gly Lys Ile Ser Lys
860 865 870

cca gat atg tca cgt ctg aga ctt gct gct ggg agt gct att gtg aag 2813
Pro Asp Met Ser Arg Leu Arg Leu Ala Ala Gly Ser Ala Ile Val Lys
875 880 885

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890 895 900

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Gln Leu Cys Ala Leu Ala Ile Asn Asp Glu Cys Tyr Gln Val Arg Gln
905 910 915 920

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Val Phe Ala Gln Lys Leu His Lys Gly Leu Ser Arg Leu Arg Leu Pro
925 930 935

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Leu Glu Tyr Met Ala Ile Cys Ala Leu Cys Ala Lys Asp Pro Val Lys
940 945 950

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955 960 965

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Arg Arg Glu Tyr Leu Lys Gln His Ala Ala Val Ser Glu Lys Leu Leu
970 975 980

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Ser Leu Leu Pro Glu Tyr Val Val Pro Tyr Thr Ile His Leu Leu Ala
985 990 995 1000

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His Asp Pro Asp Tyr Val Lys Val Gln Asp Ile Glu Gln Leu Lys Asp
1005 1010 1015

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1065 1070 1075 1080

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Phe Phe Thr Gln Pro Asp Lys Asn Phe Ser Asn Thr Lys Asn Tyr Leu
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Pro Pro Glu Met Lys Ser Phe Phe Thr Pro Gly Lys Pro Lys Thr Thr
1115 1120 1125

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1130 1135 1140

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1145 1150 1155 1160

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Ser Ser Asn Pro Ser Ser Pro Gly Arg Ile Lys Gly Arg Leu Asp Ser
1165 1170 1175

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Ser Glu Met Asp His Ser Glu Asn Glu Asp Tyr Thr Met Ser Ser Pro
1180 1185 1190

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Leu Pro Gly Lys Lys Ser Asp Lys Arg Asp Asp Ser Asp Leu Val Arg
1195 1200 1205

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Ser Glu Leu Glu Lys Pro Arg Gly Arg Lys Lys Thr Pro Val Thr Glu
1210 1215 1220

cag gag gag aaa tta ggt atg gat gac ttg act aag ttg gta cag gaa 3869
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1245 1250 1255

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Lys Arg Gly Arg Pro Pro Lys Pro Leu Gly Gly Gly Thr Pro Lys Glu
1290 1295 1300

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Thr Glu Gln Lys Ser Lys Ser Lys Gln His Arg Val Ser Arg Arg Ala
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Ser Thr Pro Gln Lys Gly Arg Gly Arg Pro Ser Lys Thr Pro Ser Pro
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Ser Gln Pro Lys Lys Asn Val
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